

SEQUENCE LISTING

<110> C. Frank Bennett
Susan M. Freier

<120> ANTISENSE MODULATION OF GLIOMA-ASSOCIATED ONCOGENE-3 EXPRESSION

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Glu Ala Gln Ser His Ser Ser Thr Thr Thr Glu Lys Lys Lys Val Glu
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Asn Ser Ile Val Lys Cys Ser Thr Arg Thr Asp Val Ser Glu Lys Ala
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gtt gcc tcc agc acc act tct aat gag gat gaa agt cct gga cag act      201
Val Ala Ser Ser Thr Thr Ser Asn Glu Asp Glu Ser Pro Gly Gln Thr
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tat cac aga gag aga aga aac gca atc act atg cag cca cag aat gtc      249
Tyr His Arg Glu Arg Arg Asn Ala Ile Thr Met Gln Pro Gln Asn Val
           50                55                60                65

cag ggg ctc agc aaa gtc agt gag gaa cct tca aca tcg agt gac gag      297
Gln Gly Leu Ser Lys Val Ser Glu Glu Pro Ser Thr Ser Ser Asp Glu
           70                75                80

agg gcc tca ttg atc aag aaa gag atc cat ggg tcc ctg cca cac gtg      345
Arg Ala Ser Leu Ile Lys Lys Glu Ile His Gly Ser Leu Pro His Val
           85                90                95

gcg gag ccc tct gtg ccg tac cgc ggg acg gtg ttt gcc atg gac ccc      393
Ala Glu Pro Ser Val Pro Tyr Arg Gly Thr Val Phe Ala Met Asp Pro
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agg aat ggt tac atg gag ccc cac tac cac cct cct cat ctt ttc cct      441
Arg Asn Gly Tyr Met Glu Pro His Tyr His Pro Pro His Leu Phe Pro

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gcc ttc cat cct cct gta cca att gat gcc aga cat cat gag ggc cgt			489
Ala Phe His Pro Pro Val Pro Ile Asp Ala Arg His His Glu Gly Arg			
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Tyr His Tyr Asp Pro Ser Pro Ile Pro Pro Leu His Met Thr Ser Ala			
	150	155	160
tta tct agt agc cct acg tat ccg gac ctg ccc ttc att agg atc tcc			585
Leu Ser Ser Ser Pro Thr Tyr Pro Asp Leu Pro Phe Ile Arg Ile Ser			
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cca cac cgg aac ccc gct gct gct tcc gag tct ccc ttc agc cct cca			633
Pro His Arg Asn Pro Ala Ala Ala Ser Glu Ser Pro Phe Ser Pro Pro			
	180	185	190
cat ccc tac att aat ccc tac atg gac tat atc cgc tcc ttg cac agc			681
His Pro Tyr Ile Asn Pro Tyr Met Asp Tyr Ile Arg Ser Leu His Ser			
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agc cca tcg ctc tcc atg atc tca gca acc cgt ggg ctg agc cct aca			729
Ser Pro Ser Leu Ser Met Ile Ser Ala Thr Arg Gly Leu Ser Pro Thr			
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Asp Ala Pro His Ala Gly Val Ser Pro Ala Glu Tyr Tyr His Gln Met			
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gcc ctg cta act ggc cag cgc agc ccc tat gca gac att att ccc tca			825
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gct gcc acc gcc ggc acg ggg gcc atc cac atg gaa tat ctt cat gct			873
Ala Ala Thr Ala Gly Thr Gly Ala Ile His Met Glu Tyr Leu His Ala			
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Met Asp Ser Thr Arg Phe Ser Ser Pro Arg Leu Ser Ala Arg Pro Ser			
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Arg Lys Arg Thr Leu Ser Ile Ser Pro Leu Ser Asp His Ser Phe Asp			

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Asn Asn Ser Arg Ser Ser Ser Ser Ala Ser Gly Ser Tyr Gly His Leu				
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Pro Val Ser Leu His Met His Gln Gln Ile Leu Ser Arg Gln Gln Ser				
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Leu Gly Ser Ala Phe Gly His Ser Pro Pro Leu Ile His Pro Ala Pro				
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Thr Phe Pro Thr Gln Arg Pro Ile Pro Gly Ile Pro Thr Val Leu Asn				
390	395	400		
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Pro Val Gln Val Ser Ser Gly Pro Ser Glu Ser Ser Gln Asn Lys Pro				
405	410	415		
acg agt gag tct gca gtg agc agc act ggt gac ccg atg cac aac aag				1353
Thr Ser Glu Ser Ala Val Ser Ser Thr Gly Asp Pro Met His Asn Lys				
420	425	430		
agg tcc aag atc aaa ccc gat gaa gac ctc ccc agc cca ggg gct cgg				1401
Arg Ser Lys Ile Lys Pro Asp Glu Asp Leu Pro Ser Pro Gly Ala Arg				
435	440	445		
ggg cag cag gaa cag ccc gaa gga aca acc ctt gtc aag gag gaa ggg				1449
Gly Gln Gln Glu Gln Pro Glu Gly Thr Thr Leu Val Lys Glu Glu Gly				
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gac aaa gat gaa agc aaa cag gag cct gaa gtc atc tat gag aca aac				1497
Asp Lys Asp Glu Ser Lys Gln Glu Pro Glu Val Ile Tyr Glu Thr Asn				

470	475	480	
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Cys His Trp Glu Gly Cys Ala Arg Glu Phe Asp Thr Gln Glu Gln Leu			
485	490	495	
gtg cac cat ata aat aac gac cat att cat gga gag aag aag gag ttc			1593
Val His His Ile Asn Asn Asp His Ile His Gly Glu Lys Lys Glu Phe			
500	505	510	
gtg tgc agg tgg ctg gac tgc tca aga gag cag aaa ccc ttc aaa gcc			1641
Val Cys Arg Trp Leu Asp Cys Ser Arg Glu Gln Lys Pro Phe Lys Ala			
515	520	525	
cag tat atg ttg gta gtg cat atg aga aga cac acg ggc gag aag cct			1689
Gln Tyr Met Leu Val Val His Met Arg Arg His Thr Gly Glu Lys Pro			
530	535	540	545
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His Lys Cys Thr Phe Glu Gly Cys Thr Lys Ala Tyr Ser Arg Leu Glu			
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aac ttg aaa aca cac ttg aga tct cac act gga gag aaa cca tac gtc			1785
Asn Leu Lys Thr His Leu Arg Ser His Thr Gly Glu Lys Pro Tyr Val			
565	570	575	
tgt gag cac gaa ggt tgc aac aag gct ttc tca aat gcc tct gat cgc			1833
Cys Glu His Glu Gly Cys Asn Lys Ala Phe Ser Asn Ala Ser Asp Arg			
580	585	590	
gcc aaa cac caa aac aga acg cat tcc aat gag aaa cca tat gtg tgc			1881
Ala Lys His Gln Asn Arg Thr His Ser Asn Glu Lys Pro Tyr Val Cys			
595	600	605	
aaa atc cca ggc tgc act aag cgt tac aca gac cca agc tcc ctc cgg			1929
Lys Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu Arg			
610	615	620	625
aaa cat gtg aag aca gtg cat ggc cca gag gct cat gtc acc aag aag			1977
Lys His Val Lys Thr Val His Gly Pro Glu Ala His Val Thr Lys Lys			
630	635	640	
cag cga ggg gac atc cat cct cgg ccg cca ccc ccg aga gat tcc ggc			2025
Gln Arg Gly Asp Ile His Pro Arg Pro Pro Pro Pro Arg Asp Ser Gly			

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Ser His Ser Gln Ser Arg Ser Pro Gly Arg Pro Thr	Gln Gly Ala Leu		
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Gly Glu Gln Gln Asp Leu Ser Asn Thr Thr Ser Lys	Arg Glu Glu Cys		
675	680	685	
ctc cag gtg aaa acc gtc aag gca gag aag cca atg	aca tct cag cca	2169	
Leu Gln Val Lys Thr Val Lys Ala Glu Lys Pro Met	Thr Ser Gln Pro		
690	695	700	
705			
agc cct ggt ggt cag tct tca tgc agc agc caa cag	tcc ccc atc agc	2217	
Ser Pro Gly Gly Gln Ser Ser Cys Ser Ser Gln Gln	Ser Pro Ile Ser		
710	715	720	
aac tat tcc aac agt ggg ctc gag ctt cct ctg acc	gat gga ggt agt	2265	
Asn Tyr Ser Asn Ser Gly Leu Glu Leu Pro Leu Thr	Asp Gly Gly Ser		
725	730	735	
ata gga gac ctc agt gcc atc gat gaa acc cca atc	atg gac tca acc	2313	
Ile Gly Asp Leu Ser Ala Ile Asp Glu Thr Pro Ile	Met Asp Ser Thr		
740	745	750	
att tcc act gca acc aca gcc ctt gct ttg caa gcc	agg aga aac ccg	2361	
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755	760	765	
gca ggg acc aaa tgg atg gag cac gta aaa cta gaa	agg cta aaa caa	2409	
Ala Gly Thr Lys Trp Met Glu His Val Lys Leu Glu	Arg Leu Lys Gln		
770	775	780	
785			
gtg aat gga atg ttt ccg cga ctg aac ccc att cta	ccc cct aaa gcc	2457	
Val Asn Gly Met Phe Pro Arg Leu Asn Pro Ile Leu	Pro Pro Lys Ala		
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Pro Ala Val Ser Pro Leu Ile Gly Asn Gly Thr Gln	Ser Asn Asn Thr		
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tgc agc ttg ggt ggg ccc atg acg ctt ctc ccg ggc	aga agc gac ctc	2553	
Cys Ser Leu Gly Gly Pro Met Thr Leu Leu Pro Gly	Arg Ser Asp Leu		

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Ser Gly Val Asp Val Thr Met Leu Asn Met Leu Asn Arg Arg Asp Ser			
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agc gcc agc acc atc agc tcg gcc tac ctg agc agc cgc cgc tcc tca			2649
Ser Ala Ser Thr Ile Ser Ser Ala Tyr Leu Ser Ser Arg Arg Ser Ser			
850	855	860	865
ggg atc tcg ccc tgc ttc tcc agc cgc cgc tcc agc gag gcg tca cag			2697
Gly Ile Ser Pro Cys Phe Ser Ser Arg Arg Ser Ser Glu Ala Ser Gln			
870	875	880	
gcc gag ggc cgg ccg cag aac gtg agc gtg gcc gac tcc tac gac ccc			2745
Ala Glu Gly Arg Pro Gln Asn Val Ser Val Ala Asp Ser Tyr Asp Pro			
885	890	895	
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Ile Ser Thr Asp Ala Ser Arg Arg Ser Ser Glu Ala Ser Gln Ser Asp			
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Gly Leu Pro Ser Leu Leu Ser Leu Thr Pro Ala Gln Gln Tyr Arg Leu			
915	920	925	
aag gcc aag tac gcg gct gcc aca gga ggg ccg ccg ccg acg ccc ctg			2889
Lys Ala Lys Tyr Ala Ala Ala Thr Gly Gly Pro Pro Pro Thr Pro Leu			
930	935	940	945
ccc aac atg gag agg atg agc ctg aag acg cgc ctg gcg ctg ctc ggg			2937
Pro Asn Met Glu Arg Met Ser Leu Lys Thr Arg Leu Ala Leu Leu Gly			
950	955	960	
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Asp Ala Leu Glu Pro Gly Val Ala Leu Pro Pro Val His Ala Pro Arg			
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Arg Cys Ser Asp Gly Gly Ala His Gly Tyr Gly Arg Arg His Leu Gln			
980	985	990	
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Pro His Asp Ala Leu Gly His Gly Val Arg Arg Ala Ser Asp Pro Val			

995	1000	1005	
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Arg Thr Gly Ser Glu Gly Leu Ala Leu Pro Arg Val Pro Arg Phe Ser			
1010	1015	1020	1025
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Ser Leu Ser Ser Cys Asn Pro Pro Ala Met Ala Thr Ser Ala Glu Lys			
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Arg Ser Leu Val Leu Gln Asn Tyr Thr Arg Pro Glu Gly Gly Gln Ser			
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cga aac ttc cac tcg tcc ccc tgt cct ccc agc atc acc gag aac gtc			3273
Arg Asn Phe His Ser Ser Pro Cys Pro Pro Ser Ile Thr Glu Asn Val			
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acc ctg gag tcc ctg acc atg gac gct gat gcc aac ctg aac gat gag			3321
Thr Leu Glu Ser Leu Thr Met Asp Ala Asp Ala Asn Leu Asn Asp Glu			
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Asp Phe Leu Pro Asp Asp Val Val Gln Tyr Leu Asn Ser Gln Asn Gln			
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gca ggg tac gag cag cac ttc ccc agc gcc ctc ccg gac gac agc aaa			3417
Ala Gly Tyr Glu Gln His Phe Pro Ser Ala Leu Pro Asp Asp Ser Lys			
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Val Pro His Gly Pro Gly Asp Phe Asp Ala Pro Gly Leu Pro Asp Ser			
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Ser Lys Thr Asp Leu Pro Ile Gln Trp Asn Glu Val Ser Ser Gly Ser			
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Ala Asp Leu Ser Ser Ser Lys Leu Lys Cys Gly Pro Arg Pro Ala Val			

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Pro Gln Thr Arg Ala Phe Gly Phe Cys Asn Gly Met Val Val His Pro				
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Gln Asn Pro Leu Arg Ser Gly Pro Ala Gly Gly Tyr Gln Thr Leu Gly				
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Glu Asn Ser Asn Pro Tyr Gly Gly Pro Glu His Leu Met Leu His Asn				
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Ser Pro Gly Ser Gly Thr Ser Gly Asn Ala Phe His Glu Gln Pro Cys				
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Pro Val Ala Pro Asn Glu Ser Ala Gly Ser Met Val Asn Gly Met Gln				
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Ala Val Val Arg Gly Tyr Gln Pro Cys Ala Ser Phe Gly Gly Ser Arg			
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22

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<212> DNA

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